

The diagram illustrates the GPRS network architecture. It shows the following components and their connections:

- MS (Mobile Station):** Represented by a mobile phone icon.
- RADIO INTERFACE:** A dashed vertical line separating the MS from the BSS.
- BSS (Base Station Subsystem):** Contains a **BS (Base Station)** icon.
- Gb INTERFACE:** A dashed vertical line separating the BSS from the SGSN.
- SGSN (Serving GPRS Support Node):** A central node connected to the BSS, HLR, and GGSN.
- HLR (Home Location Register):** A database connected to the SGSN.
- GGSN (Gateway GPRS Support Node):** Connected to the SGSN and the PDN.
- PDN (Packet Data Network):** The external network connected to the GGSN.

Arrows indicate the data flow: from MS to BS, from BS to SGSN, from SGSN to HLR, from SGSN to GGSN, and from GGSN to the PDN.

The diagram illustrates the 3G network architecture, showing the following components and their interconnections:

- MS (Mobile Station):** Represented by a mobile phone icon, connected to the RNS via the **RADIO INTERFACE**.
- RNS (Radio Network System):** Contains a **BS (Base Station)** and is connected to the 3G core network via the **I<sub>u</sub> INTERFACE**.
- 3G MSC / VLR (Mobile Switching Center / Visitor Location Register):** Connected to the RNS, PSTN/ISDN, and HLR.
- 3G SGSN (Serving GPRS Support Node):** Connected to the RNS, HLR, GGSN, and O&M.
- GGSN (Gateway GPRS Support Node):** Connected to the 3G SGSN and the PDN.
- HLR (Home Location Register):** Connected to both the 3G MSC / VLR and the 3G SGSN.
- O&M (Operation and Maintenance):** Represented by an oval, connected to the 3G SGSN.
- PSTN/ISDN (Public Switched Telephone Network / Integrated Services Digital Network):** Connected to the 3G MSC / VLR.
- PDN (Public Data Network):** Connected to the GGSN.

Fig. 3

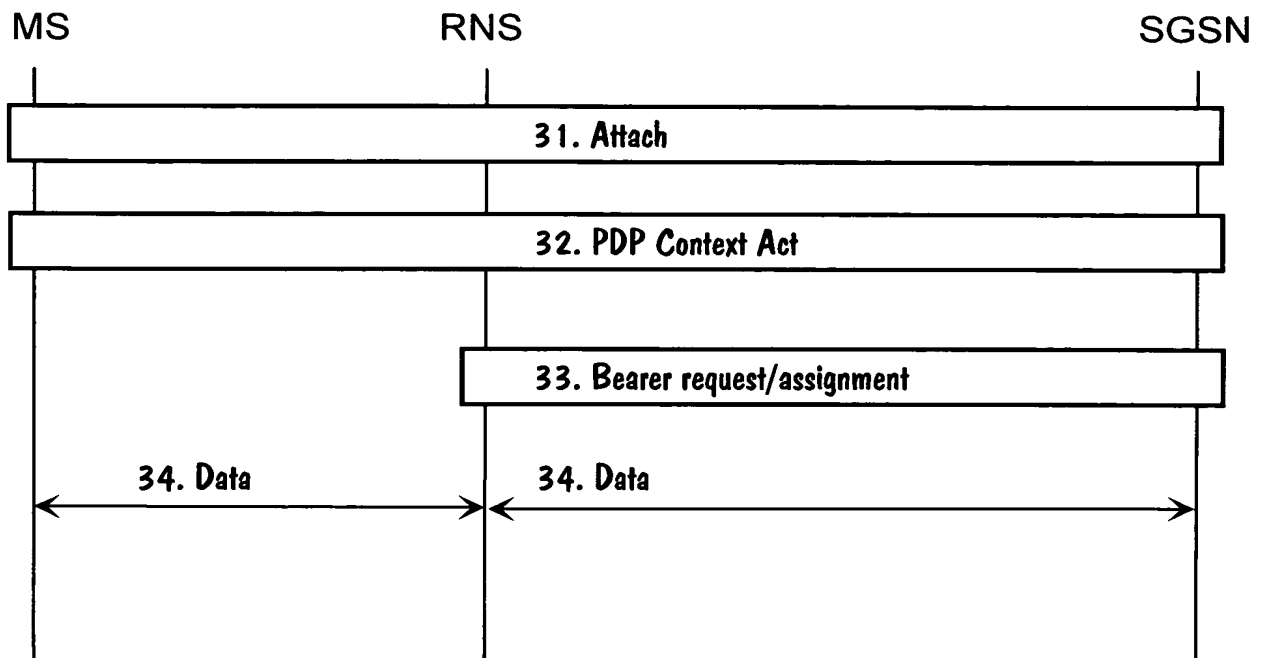
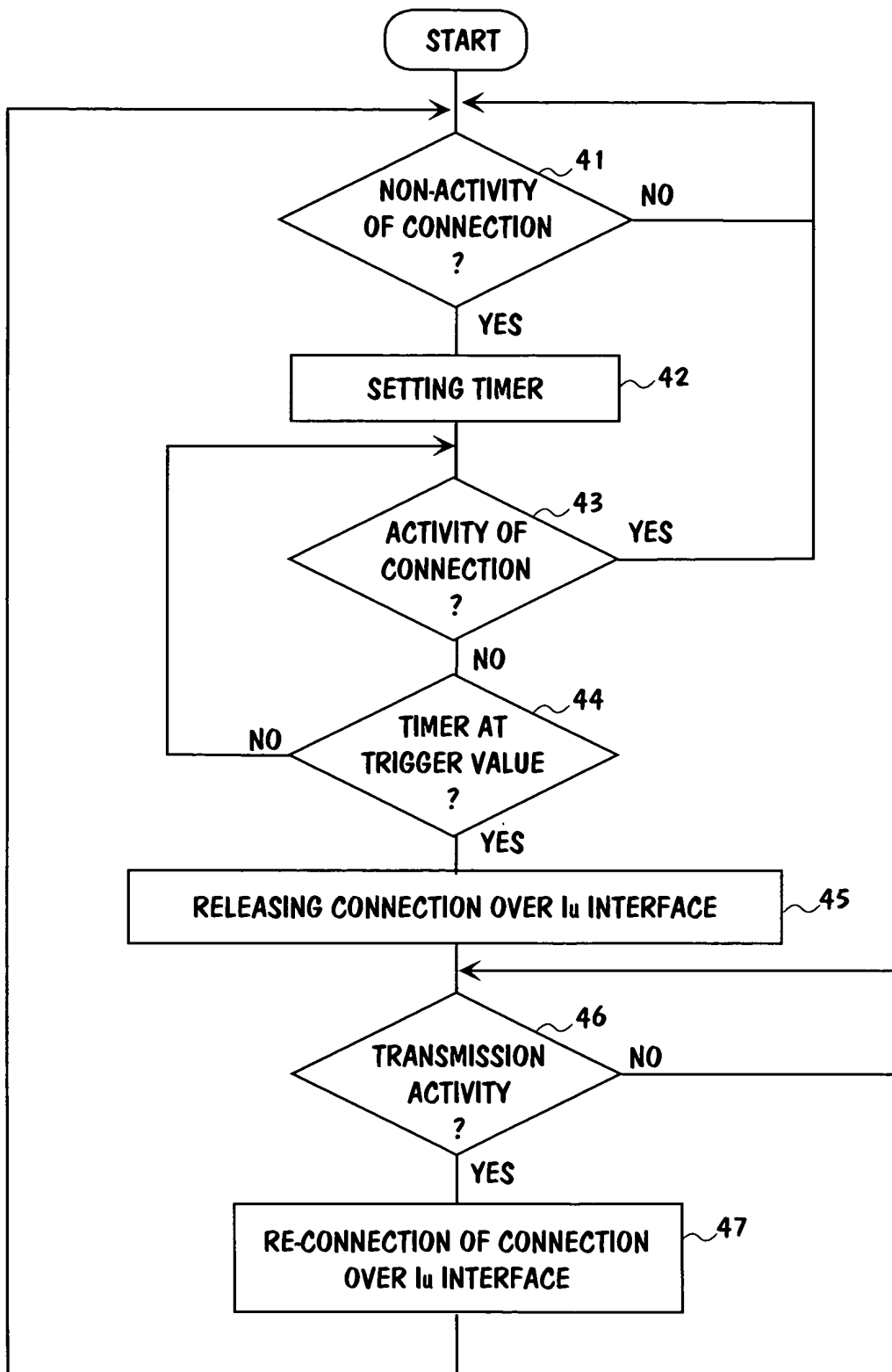
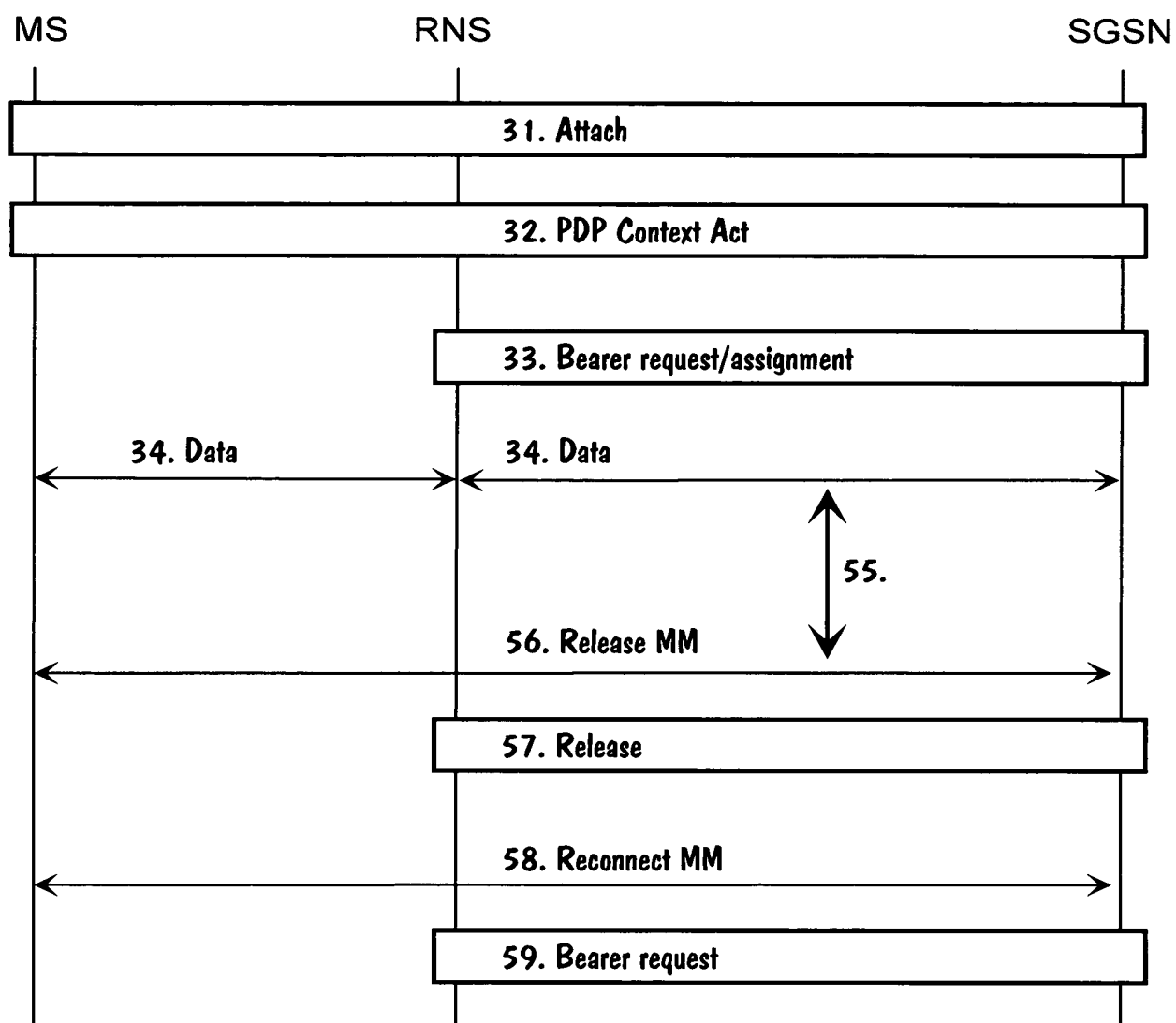


Fig. 4

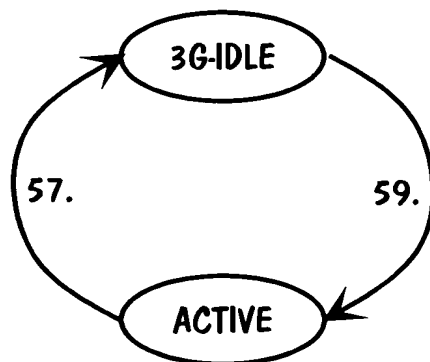


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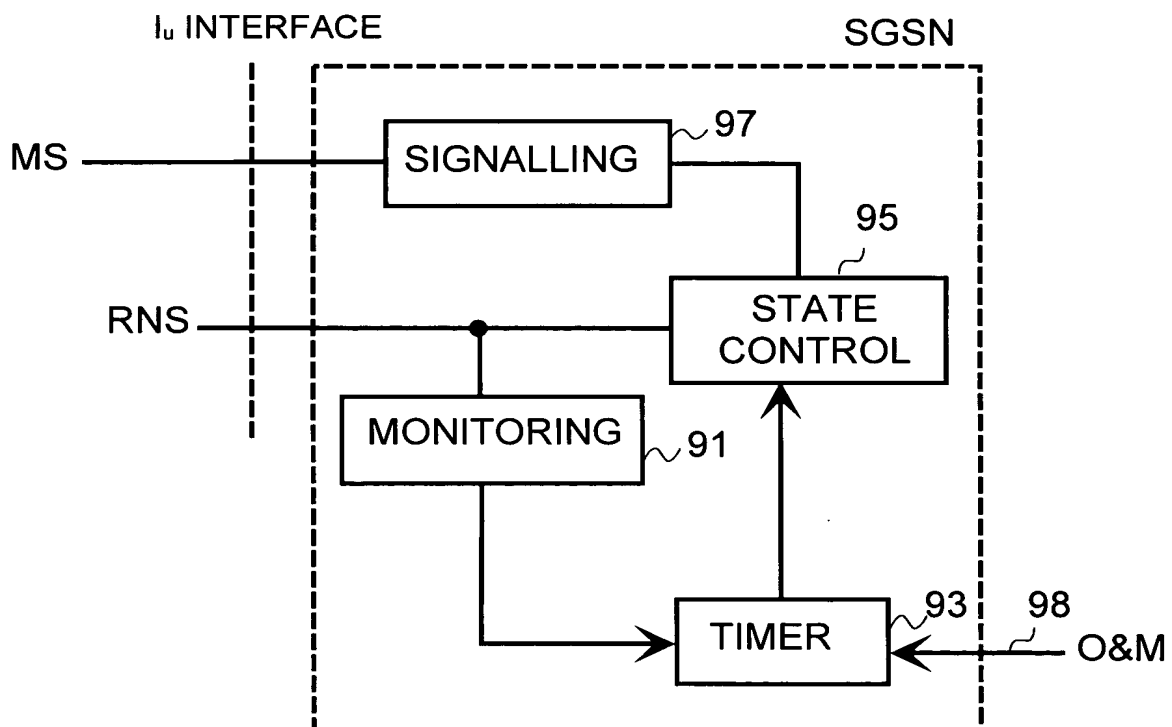
**Fig. 5**



**Fig. 7**



**Fig. 9**



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